

FINANCIAL SUPPORT

The Eastern University believes that a combination of quality students and quality teachers is a prerequisite for quality education. So, it offers fee waivers, scholarships, student loan and part-time jobs to significant number of meritorious students to assist them financially so that they can continue and complete their education at Eastern University. The details of financial support are as follows:

Undergraduate Programs**Tuition fee waiver based on previous result**

Average GPA in SSC & HSC examination	Tuition Fee Waiver	
	%	Required SGPA in EU Semester Result
5.00 (Without 4th subject)	100%	Required SGPA 3.50
4.80 - 5.00 (With 4th subject)	50%	Required SGPA 3.00
4.50 - 4.79	20%	Required SGPA 3.00
4.00 - 4.49	10%	Required SGPA 3.00

N.B: Students who are not eligible for waiver based on previous result can get scholarship based on their semester result.

Scholarship based on results in EU semester exams

Semester result	Scholarship	
	%	Condition
4.00	50%	Applicable from 2nd semester
3.75 - 3.99	20%	
3.50 - 3.74	10%	

- Student will get either Waiver on Scholarship whichever is higher from 2nd semester.
- Tuition waiver based on previous results is not applicable for EEE (Eve) students

Special Facilities (For all programs)

Waiver details	Condition
100% tuition fee waiver for children of Freedom Fighters.	Required SGPA 3.00. Student have to submit certificate from concerned Ministry.
10% special tuition fee waiver for female students.	N/A
15% special waiver for tribal students.	Student have to submit tribal certificate.
15% special waiver for physically disadvantaged and acid victim students.	Student have to submit medical certificate.
25% special waiver for brother/ sister, husband/ wife.	Both the students have to continue there study simultaneously. Only one student can enjoy the waiver. Birth certificate/ marriage certificate is required for this purpose.

Additional tuition fee waiver for E & T Faculty {CSE, EEE, ETE & EEE (Evening)}

- 10% for individual Admission
- 15% for group Admission (minimum 5 students)

- Reducing method to be followed for calculation of individual Waiver.
- Maximum cumulative waiver will not exceed 50% except for those who obtained GPA 5 (Without 4th subject) in SSC & HSC examinations and children of Freedom Fighter.

Admission Office

House 26, Road 5, Dhanmondi, Dhaka-1205

Phone: 9671912, 9671925. Mobile: 0174 1300002, 0182 3660833

Fax: 9675981, E-mail: info@easternuni.edu.bd

**Eastern University****Computer Science & Engineering**

Department of
Computer Science and Engineering
House No. 15/2, Road No. 3
Dhanmondi, Dhaka- 1205
Phone: 9673657, 9677523, 8621419

**Faculty of Engineering and Technology**

House 15/2, Road 3, Dhanmondi, Dhaka- 1205

Phone: 9673657, 9677523, 8621419

www.easternuni.edu.bd

INTRODUCTION

The Department of Computer Science and Engineering offers Bachelor of Science in Computer Science and Engineering Degree. Graduates of this program have already secured excellent and prestigious jobs in the ICT industry in the country and abroad. The credit required for completion of the B.Sc. in CSE program is 157.

Since its inception, the Department is gradually advancing in terms of quality faculty members and laboratory facilities. At present the Department has 20 full time and 12 Adjunct faculty members who are highly qualified and have completed their graduation from Dhaka University, BUET, KUET etc. and some of them got higher degrees from abroad. The well equipped labs are as follows:

- Software Lab
- Networking Lab
- Microprocessor and Interfacing Lab
- DLD Lab
- Electrical and Electronic Engineering Lab

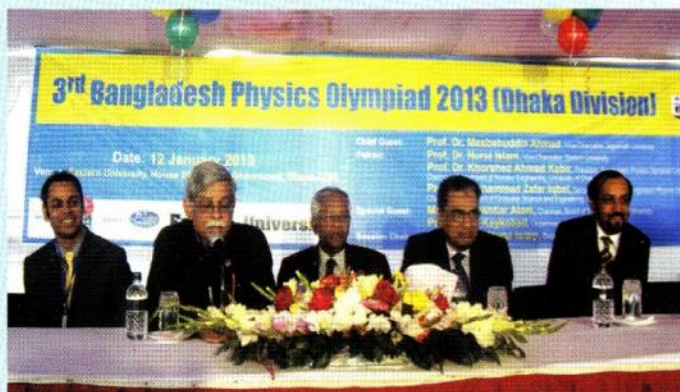
Apart from academic activities, the students of the Department regularly take part in different co-curricular activities such as programming contests, debates, gaming contests, sports competitions, welfare programs etc.

MISSION

Our mission is to provide an excellent education in all computer related fields. Our main task is to prepare students for careers in industry or to pursue advanced graduate studies. Also a part of our mission is to ensure a comprehensive and client oriented teaching environment that emphasizes depth, originality and critical thinking of computer science and related professional values.

VISION

Our vision is to offer up to date and flexible programs which will allow our graduates to be competitive in the ever-changing and challenging global work environment of the 21st century. We strive to provide a hands-on approach in teaching computer related courses. We are continually increasing the capacity of our computer laboratories as well as equipping them with the latest hardware and software.



3rd Bangladesh Physics Olympiad 2013 (Dhaka Division)

JOB OPPORTUNITIES

(Home and Abroad)

In software firms, Telecommunication companies, Electronic Media, Government & private sectors, Multinational companies, call center etc. All CSE graduates of EU are either employed or pursuing higher education at home & abroad.

FACILITIES

- Well equipped class rooms with AC, Multimedia Projectors.
- Free internet facilities for all students are available.
- Teacher's lecture notes are available in the web.
- Sophisticated computer laboratories with plenty of computers.
- Digital and electronic laboratories.
- Power engineering and Communication laboratories.
- Highly qualified faculty members from home and abroad.
- Regular seminars and workshop on current topics.
- Regular computer programming contest.
- Credit transfer facilities to reputed foreign universities.
- Excellent library facilities.
- Generous tuition fee waivers and merit scholarships.

ENTRY REQUIREMENT

Candidates with minimum GPA of 2.50 in both SSC/Dakhil and HSC/Alim/Diploma from Technical Education Board or minimum GPA of 2.00 in one of those exams with total GPA of 6.00 in both the exams are eligible for admission. The GCE students must have passed five subjects in O-Level and two subjects in A-Level.

DURATION OF THE PROGRAM

The duration for B. Sc. in Computer Science and Engineering program is four years and divided into 12 semesters.

GRADUATION REQUIREMENT

To obtain B.Sc. (CSE) degree a student will have to complete 157 credit hrs. with a minimum CGPA of 2.50.

COURSE DISTRIBUTION

Credit hours requirement of B.Sc. in CSE program are given below:

<i>Courses</i>	<i>No .of Courses</i>	<i>Credit Hours</i>	<i>Total Credit</i>
Preliminary			
1. English	3	6.0	58.0
2. Mathematics	5	15.0	
3. Statistics	1	3.0	
4. Physics	2	7.0	
5. Chemistry	1	4.0	
6. Humanities	4	11.0	
7. EEE	4	12.0	
Core	22	--	81.0
Elective (Major)	3	--	12.0
Thesis/Project Work	--	--	6.0
Total	45	--	157.0

COURSES OFFERED IN B.Sc. (CSE) PROGRAM IN 12 SEMESTERS

First Semester			
Course Code	Course Title	Credits	Prerequisite
CSE 110	Computer Fundamentals Laboratory	1.0	
ENG 103	Listening and Speaking	2.0	
SOC 101	Introduction to Sociology	3.0	
MAT 101	Calculus I	3.0	
PHY 101	Physics I	3.0	
PHY 102	Physics I Laboratory	1.0	
Second Semester			
EEE 111	Basic Electrical Circuits	3.0	
EEE 112	Basic Electrical Circuits Laboratory	1.0	
ENG 107	Reading and Grammar	2.0	
MAT 103	Calculus II	3.0	MAT 101
PHY 103	Physics II	3.0	PHY 101, PHY 102
Third Semester			
CSE 103	Structured Programming	3.0	CSE 110
CSE 104	Structured Programming Laboratory	1.0	
ENG 111	Writing	2.0	
MAT 105	Geometry & Complex Variables	3.0	
BUS 105	Introduction to Business	3.0	
Fourth Semester			
CHM 201	Chemistry	3.0	
CHM 202	Chemistry Laboratory	1.0	
EEE 231	Electronics I	3.0	EEE 111, EEE 112
EEE 232	Electronics I Laboratory	1.0	
MAT 201	Differential Equations	3.0	MAT 105
CSE 211	Discrete Mathematics	3.0	
Fifth Semester			
MAT 203	Linear Algebra	3.0	
EEE 233	Electronics II	3.0	EEE 231, EEE 232
EEE 234	Electronics II Laboratory	1.0	
CSE 223	Object Oriented Programming	3.0	CSE 103, CSE 104
CSE 224	Object Oriented Programming Laboratory	1.0	
CSE 227	Logic Design and Digital Systems	3.0	
CSE 228	Logic Design and Digital Systems Laboratory	1.0	
Sixth Semester			
ACT 201	Principles of Accounting	2.0	
CSE 201	Numerical Methods	3.0	MAT 201
CSE 202	Numerical Methods Laboratory	1.0	MAT 201, CSE 104
HUM 201	Values and Ethics	3.0	
CSE 231	Data Structures	3.0	CSE 103, CSE 104
CSE 232	Data Structures Laboratory	1.0	
Seventh Semester			
STS 301	Probability and Statistics	3.0	MAT 103
CSE 311	Operating System	3.0	CSE 110, CSE 231, CSE 232
CSE 312	Operating System Laboratory	1.0	
CSE 313	Microprocessor, Microcontrollers and Assembly Language Programming	3.0	CSE 103, CSE 104, CSE 233
CSE 314	Microprocessor, Microcontrollers and Assembly Language Programming Laboratory	1.0	
CSE 315	Theory of Computation	3.0	CSE 211
Eighth Semester			
CSE 321	Computer Arch. and Organization	3.0	CSE 313
CSE 325	Computer Peripherals and Interfacing	3.0	CSE 313
CSE 326	Computer Peripherals and Interfacing Laboratory	1.0	
CSE 327	Design and Analysis of Algorithm	3.0	CSE 231
CSE 328	Design and Analysis of Algorithm Laboratory	1.0	

Ninth Semester			
CSE 331	Data Communication	3.0	
CSE 332	Data Communication Laboratory	1.0	
CSE 333	Database Management Systems	3.0	
CSE 334	Database Management Laboratory	1.0	
CSE 335	Mathematical Analysis for Computer Science	3.0	
Tenth Semester			
CSE 411	Computer Graphics	3.0	CSE 103, CSE 104
CSE 412	Computer Graphics Laboratory	1.0	
CSE 413	Compiler Design	3.0	CSE 103, CSE 104, CSE 315
CSE 414	Compiler Design Laboratory	1.0	
CSE 415	Computer Networks	3.0	CSE 331
CSE 416	Computer Networks Laboratory	1.0	
Eleventh Semester			
CSE 421	Wireless Networks	3.0	
CSE 422	Wireless Networks Laboratory	1.0	
CSE 423	Software Engineering	3.0	
CSE 424	Software Engineering Laboratory	1.0	
CSE 431	Artificial Intelligence	3.0	
CSE 432	Artificial Intelligence Laboratory	1.0	
CSE 400	Project Work	3.0	
Twelfth Semester			
CSE ***	Elective I	3.0	
CSE ***	Elective I Laboratory	1.0	
CSE ***	Elective II	3.0	
CSE ***	Elective II Laboratory	1.0	
CSE ***	Elective III	3.0	
CSE ***	Elective III Laboratory	1.0	
CSE 400	Project Work	3.0	

ELECTIVE COURSES (ANY THREE COURSES INCLUDING LAB)

Course Code	Course Title	Credits
CSE 451	Bioinformatics	3.0
CSE 452	Bioinformatics Laboratory	1.0
CSE 455	Digital Signal Processing	3.0
CSE 456	Digital Signal Processing Laboratory	1.0
CSE 471	Graph Theory	3.0
CSE 472	Graph Theory Laboratory	1.0
CSE 483	Advanced Networking	3.0
CSE 484	Advanced Networking Laboratory	1.0
CSE 485	Distributed Systems	3.0
CSE 486	Distributed Systems Laboratory	1.0
CSE 487	Machine Learning	3.0
CSE 488	Machine Learning Laboratory	1.0
CSE 491	Pattern Recognition	3.0
CSE 492	Pattern Recognition Laboratory	1.0
CSE 493	Computer Vision	3.0
CSE 494	Computer Vision Laboratory	1.0
CSE 495	Digital Image Processing	3.0
CSE 496	Digital Image Processing Laboratory	1.0
CSE 497	VLSI Design	3.0
CSE 498	VLSI Design Laboratory	1.0



Prof. Dr. M. Kaykobad with Brilliant Computer Programmers of Eastern University

FACULTY MEMBERS

A. Regular:

Prof. Dr. Md. Nurul Islam

Ph.D., University of Glasgow, UK
M.Sc., University of Dhaka
B.Sc. (Hons), University of Dhaka
Former Dean, Faculty of Science, Chittagong University
Former Dean, Faculty of Modern Science, IIUC
Former Dean, Faculty of Science and Engineering, NUB
Dean, Faculty of Engineering & Technology

Dr. Md. Mahfuzur Rahman

Ph.D., Hiroshima University, Japan
M.Sc. in CSE, Zhejiang University, China
Associate Professor, Faculty of E & T
Chairperson, Department of CSE

Prof. Dr. Mirza Golam Rabbani

Ph.D., National University of Singapore
M.Tech in Electrical Engineering, IIT Kharagpur, India
B.Sc. in Electrical and Electronic Engineering, RUET
Former Head, Department of EEE, RUET
Professor, Department of EEE

Mr. Muhammad Mahfuz Hasan

M.Sc. in Applied IT (KTH, Sweden)
B.Sc. in EEE, KUET
Assistant Professor, CSE

Ms. Fahmida Rahman

B.Sc. in Physics, DU
M.Sc. in Physics, DU
M.Phil (Solid State Physics), BUET
Assistant Professor, Physics

Mr. Arafat Hassan

B.Sc. (Hons) in CSE, DU
Sr. Lecturer, CSE

Mr. Raihan Kibria

MS (USA) & B.Tech (India)
Sr. Lecturer, CSE

Ms. Farzana Rahmat Zaki

B.Sc. in EEE, BUET, M.Sc. in EEE, BUET
Sr. Lecturer, EEE & Program Coordinator (Day)

Mr. Mohammad Abdur Rob

M.Sc. in Mathematics, CU
Asst. Proctor, Faculty of E & T
Sr. Lecturer, Mathematics

Mr. Md. Shariful Islam

B.Sc. in EEE, RUET
Lecturer, EEE

Ms. Noor-E- Jannat

B.Sc. in CSE, MIST
Lecturer, CSE

Mr. Aasif Imran

B.Sc. in BIT-SE, MSSE, IIT, DU
Lecturer, CSE

B. On Study Leave:

Mr. Mostafizur Rahman

M.Sc. in CSE, Sweden
B.Sc. (Hons.) in CSE
Assistant Professor, CSE

Ms. Mahmuda Binte Mostofa Ruma

M.Phil, BUET
M.Sc. in Mathematics, DU
Assistant Professor, Mathematics

Ms. Nadia Islam

B.Sc. in CSE, AUST
Sr. Lecturer, CSE

Mr. A.M.A Elman Bashar

M.Sc. & B.Sc. in CSE, DU
Sr. Lecturer, CSE

Ms. Fahmida Hamid

M.Sc. & B.Sc. in CSE, DU
Lecturer, CSE

Mr. Mohsin Yusuf Ahmed

B.Sc. (Engg) in CSE, BUET
Lecturer, CSE

Mr. Md. Shafaeat Hossain

M.Sc. & B.Sc. in CSE, DU
Lecturer, CSE

C. Adjunct:

Prof. Dr. Md. Hasanuzzaman

Chairman
Department of CSE, DU

Prof. Dr. Md. Monirul Islam

Ph.D. in Information Sciences,
University of Fukui, Japan
Professor, Department of CSE, BUET

Prof. Dr. Mohammad Shorif Uddin

Ph.D. in Engineering, KIT, Japan
Professor, Department of CSE, JU

Prof. Dr. A. B. M. Obaidul Islam

Ph.D., Toyama University, Japan
Professor, Department of Physics,
University of Dhaka

Prof. Dr. Nikhil Ranjan Dhar

Ph.D. (Manufacturing),
IIT Kharagpur, India
Professor, Department of IPE, BUET

Prof. Dr. Monirul Alam Sarker

Ph.D., Pukyong National University,
Busan, South Korea
Professor, Department of Mathematics, BUET

Dr. Md. Showkat Ali

Ph.D. in Mathematics,
University of Glasgow, UK
Associate Professor, Department of Mathematics, University of Dhaka

Dr. Md. Shariful Islam

Associate Professor
Institute of Information Technology (IIT)
University of Dhaka